

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAAATTGGCCCAGTGTTCTCCTCCT
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 GGATCCCTTCTTAAACAACCTGGAGACGTAATAACCCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATAT
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 AACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTCTATGGATCCTCT
 CATTAGTGGTTCTCTTTATAACCTTTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCA
 GATGGCACACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTCATGGTTACTCTACCA
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 CAAACATAAACCTTTTTGTAAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTCTGTGCCC
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 CATTATTGGATTCAGCATGCCCATGTCTTTTATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA
 GGCTTTGTGAATTCCAGTCGTCCTTTACGTGTCTCACTGCTGTAGCGATTTCCTTCTTTGTCTGTTGGTTCCCTT
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATATGTTGGTTAACCCAGC
 AAATACCTTGGCTTCCCTTTAACAGCTGCCTCAACCAATACTCTATGTATTCCCTGGGTGAGGAATTCAGAGACAGA
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGA
 GCACTGACACAGACAGCAACTTGTCTTCATGAACTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT
 GGGATTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA
 GAATCTCTCTGATTCTGATTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALSDLSFMV
 TLPLHIISMVMRGKWLFGWFLCKLVHIIANINLFVSIFLITLIAMDRICVLCPVWSQNHRTVSLARKVVLGAWIF
 ALLLTLPFLFLTTVRDARGDVYCISKFESWVATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI
 CRRGFVNSSRPLRVLTAVAISSFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNCLNPILYVFLGQEF
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

bold = sequence flanking Neo insert in targeting construct

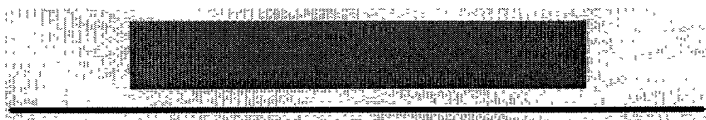
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AGGTAGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTAG
GTA**CTGACAAGATGGAAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT**
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TTGTCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCAGATGGCAC
ACACTGTGACC**ACTGTCTCTTATCTGAACCTTG****GCTTTGAGTGATTTATCTTTTCATGGTTA**
CTCTACC**ACTTCACATCATCTCAATGGT****CATGAGAGGAAAAATGGCTTTTTGGTTGGTTTC**
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CTCTTATTGCCATGGATCGCTGTATTTGTGTCCTGTGCCAGTATGGTCTCAGAATCACC
GAAC**TGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA**
CCTTGCCACATTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA
TATCTAAATTTGAATCCTGGGTTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG
CTGCCACAGCTTCAGGAATCATCAATTTCAATTATTGGATTTCAGCATGCCCATGTCTTTCA
TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTTCA
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TGTTGGTTAACCCAGCAAATACCTTGGCTTCCTTTAACAGCTGCCTCAACCCAATACTCT
ATGTATTCTTGGGTCAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG
AGAGGGCCCTGAGGGAAGACTAGTCCCTTGATGGAAAATTCAGTCCTGAGCACTGACACAG
ACAGCAACTTGTCTTCATGAACTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC
CAATGGGATTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGA
AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT

FIGURE 2A

Gene Sequence
Structure *

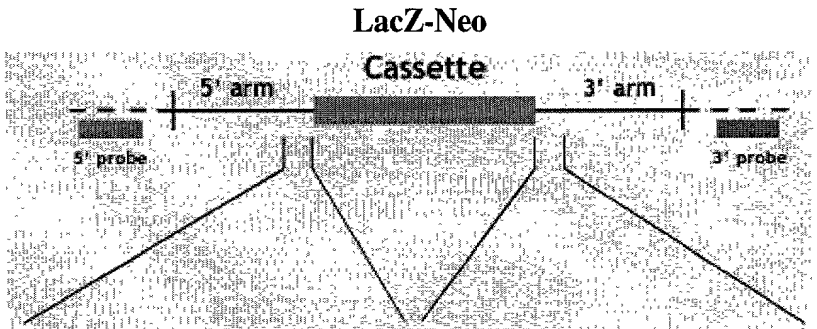
399 bp Sequence Deleted 549 bp

Size of CDS: 1554 bp



Targeting Vector*
(genomic sequence)

Arm Length:
5': 0.3 kb
3': 6 kb



Targeting Vector
Endogenous Locus
* Not drawn to scale

<p>5' >CATAGAATTAAGATTTCCATA GGGATATTTAACAGAAAACCACAT TTACTCTATTACCCCTAGAATAGG TACTTTTTAAAAATAGAAGGTGATG TGGGATCTGAGGTAAGCGGGACA AGATGGAGACACATCTGAAAAATA GTTATTGTTGAAAATTTTtaggtg CTGACAAGATGGAAGTCAACATT CAATGCCTCTG<3' (SEQ ID NO:3)</p>	<p>5' >CCACTGTCTCTTATCTGAACT TGGCTTTGAGTGATTTATCTTTCA TGGCTACTCTACCACTTCACATCA TCTCAATGGTCATGAGAGGAAAAT GGCTTTTGGTTGGTTTCTTTGCA AATTAGTTCACATAATTGCAAACA TAAACCTTTTGTAAGTATCTTCC TAATCACTCTTATTGCCATGGATC GCTGTATTGT<3' (SEQ ID NO:4)</p>
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FIGURE 2B

Open Field Summary Data - Percent in Central

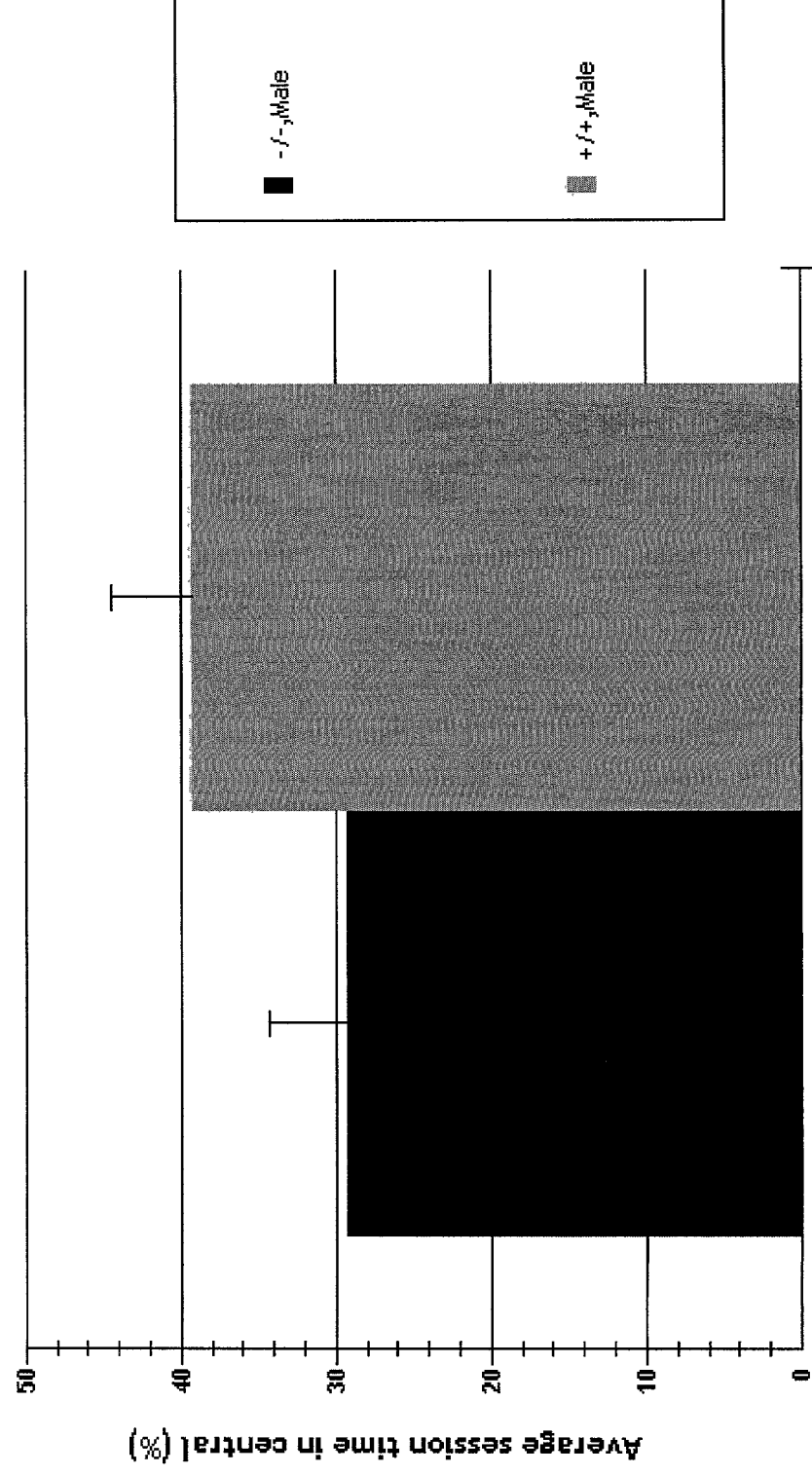


FIGURE 3

Rotarod

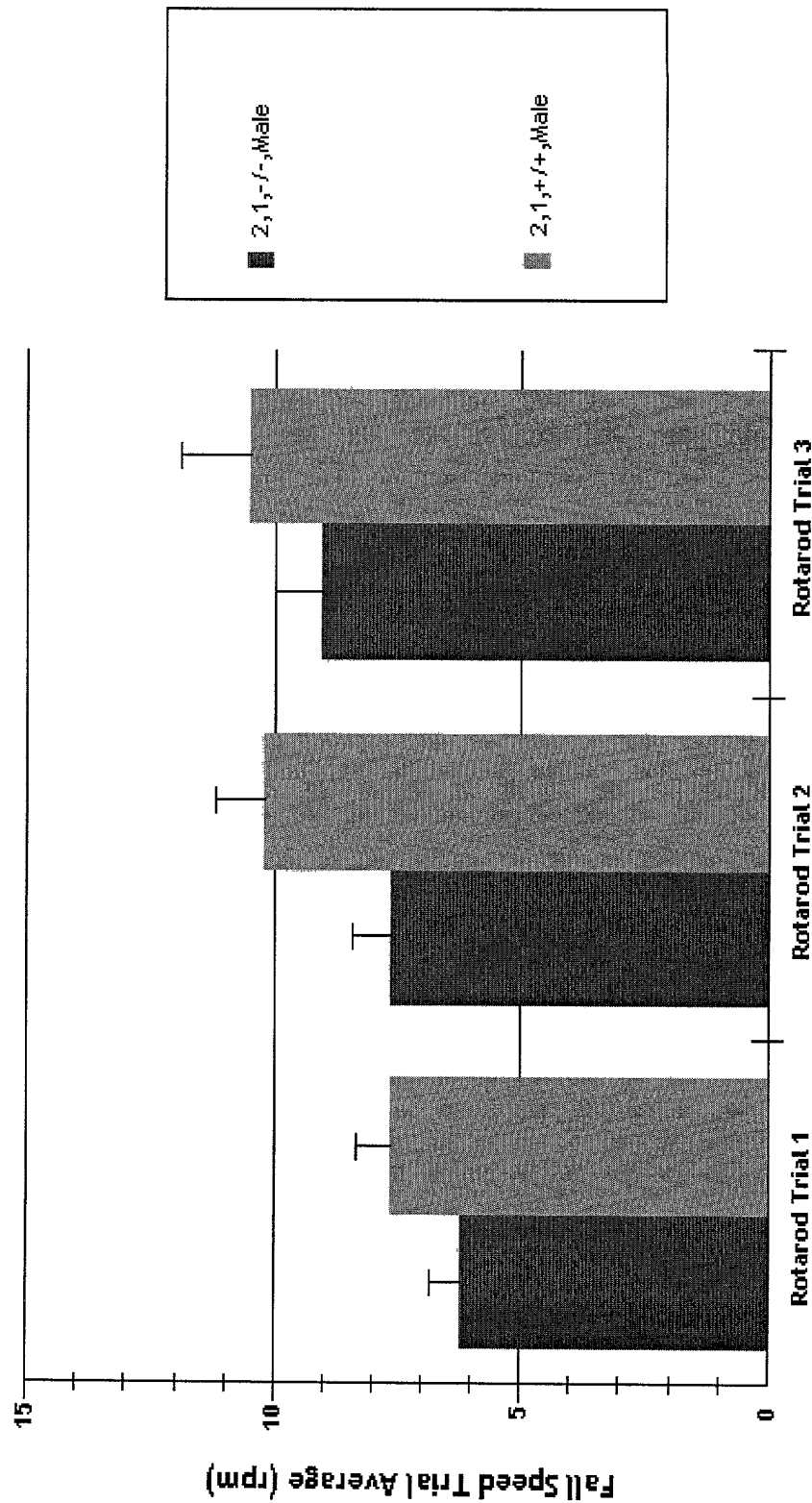


FIGURE 4

Metrazol

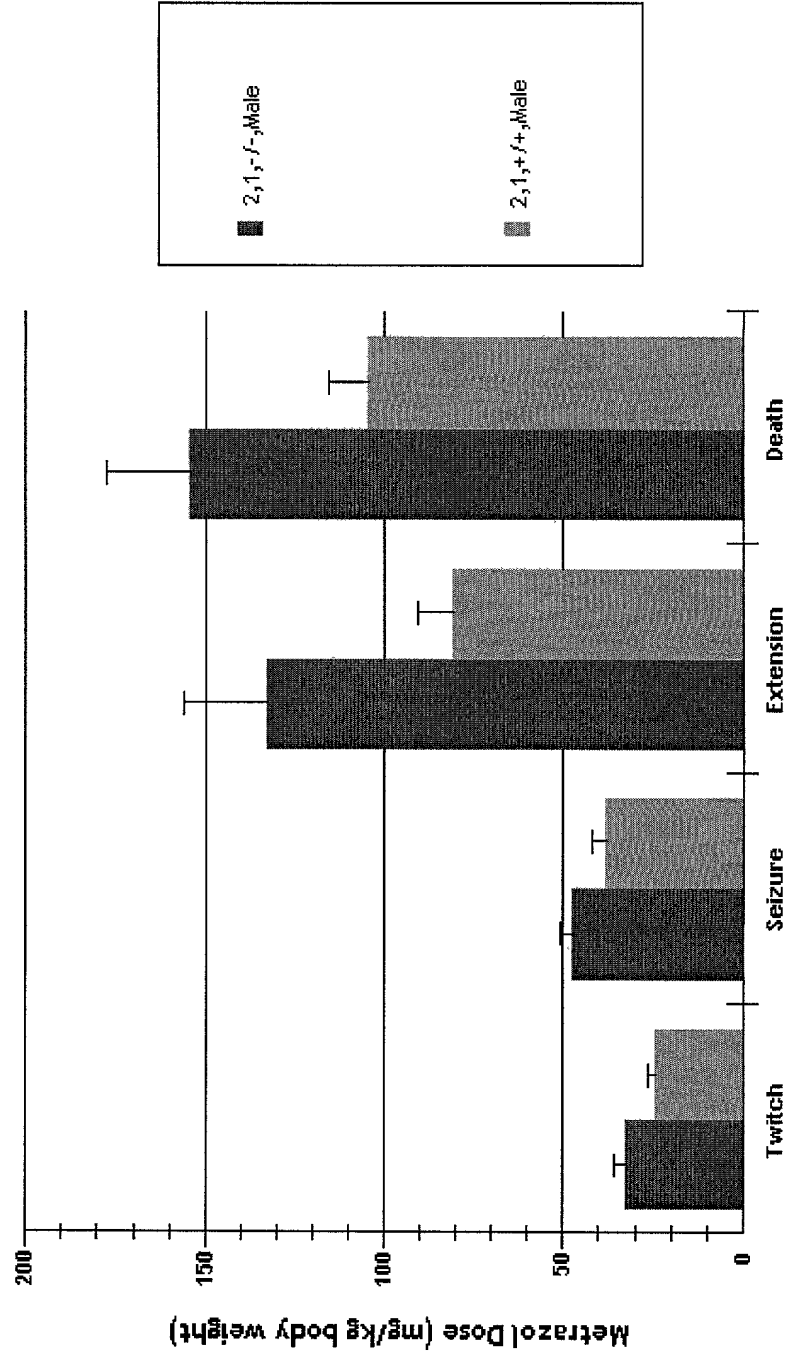


FIGURE 5